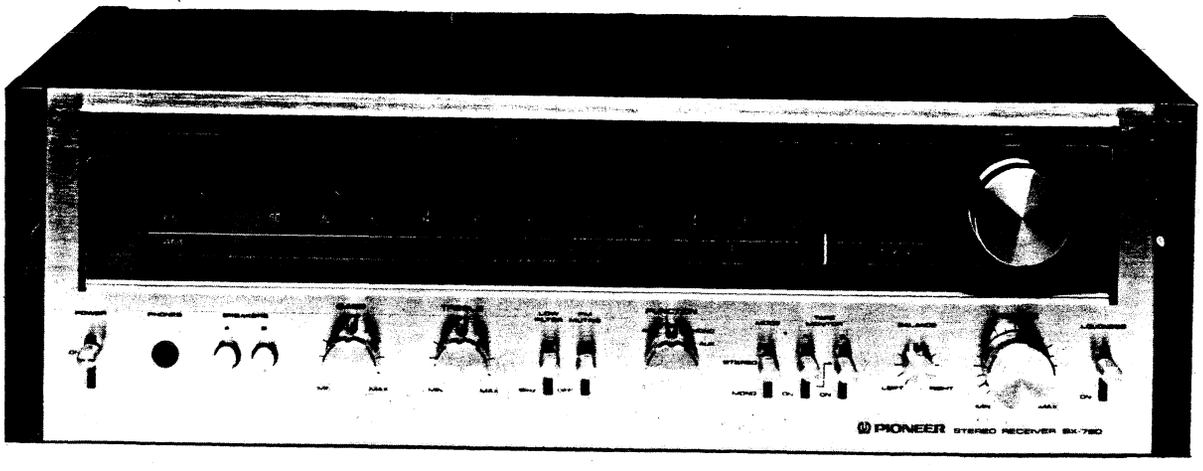
AM/FM STEREO RECEIVER

SX-790 HG HGW4

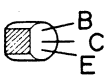
SERVICE MANUAL



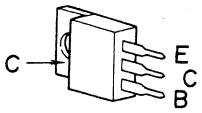
PIONEER®

External Appearance of Transistors and ICs

2SA750
2SC1775A
2SC945A
2SA893A



2SD712



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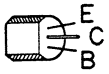
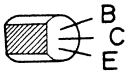
2SA850

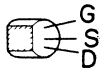


2SK34

2SC1885
2SA912
2SC1384



2SK117



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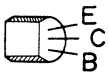
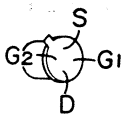
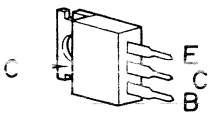
2SC1914A



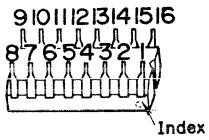
3SK59



2SA968
2SB536
2SD325



PA3001-A
PA1001-A
HA1197



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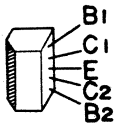

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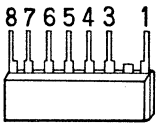
HA1457



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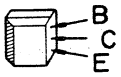
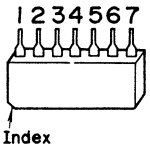
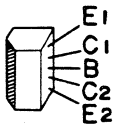


TA7136P1

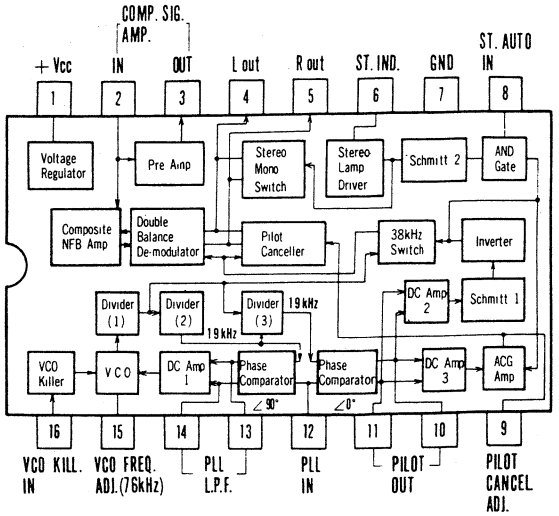


2SC2291

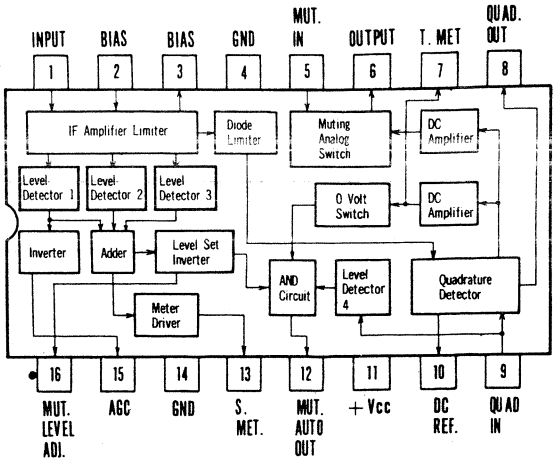


Block Diagram of ICs

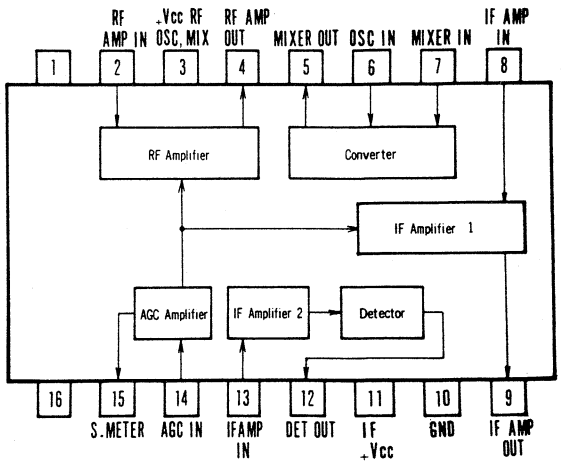
PA1001-A



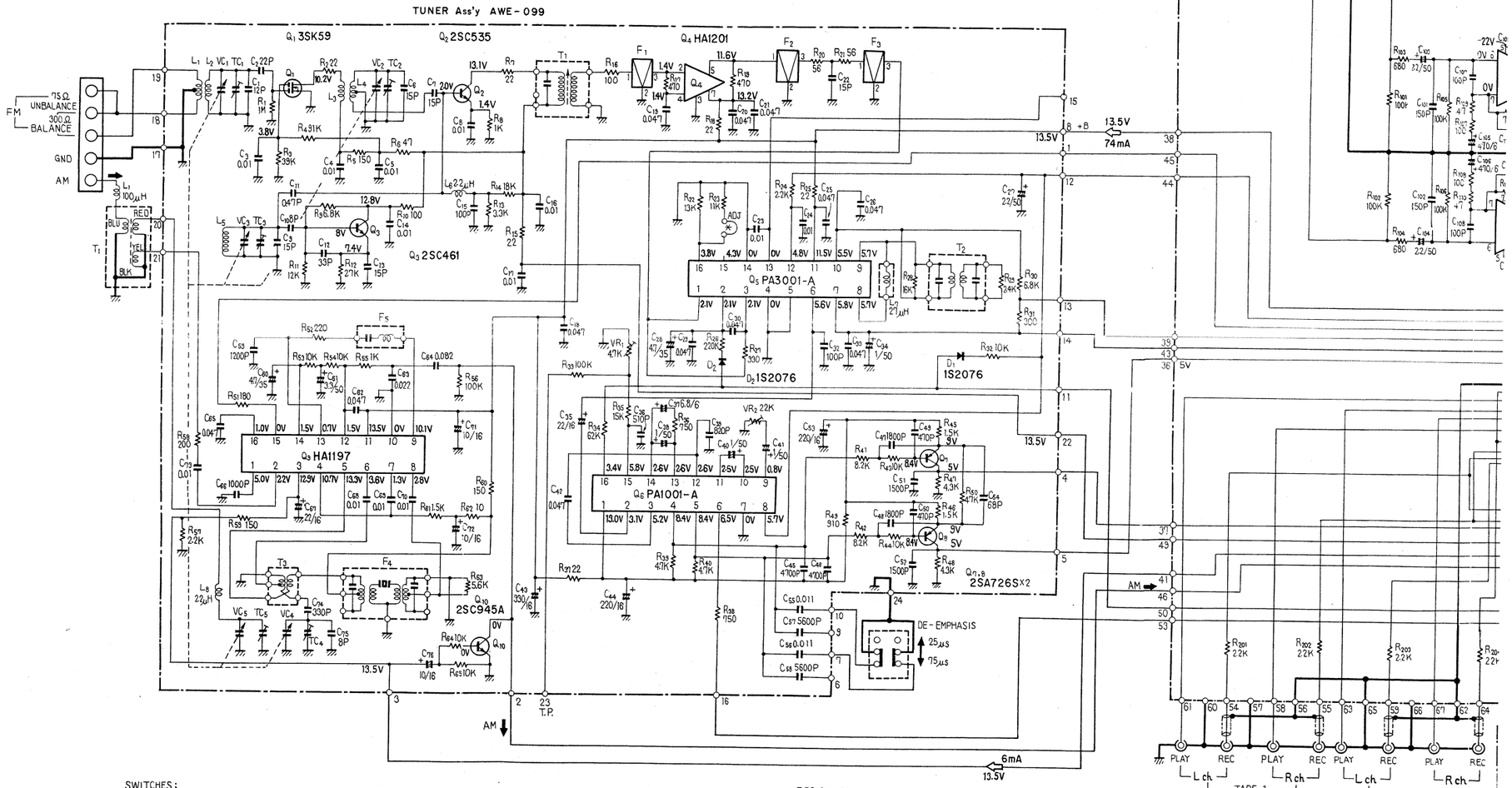
PA3001-A



HA1197



SCHEMATIC DIAGRAM



SWITCHES;

S_1	FUNCTION	S_3	TAPE MONITOR 2	S_6	LOW FILTER	S_{8-b}	SPEAKER B	S_{12}	POWER
1	AM		OFF — ON		OFF — 15Hz		OFF — ON		OFF — ON
2	FM	S_4	MODE	S_7	PROTECTION RELAY	S_{10}	FM MUTING		
3	PHONO		STEREO — MONO		OFF — ON		ON — OFF		
4	AUX	S_5	LOUDNESS	S_{8-a}	SPEAKER A	S_{11}	DE-EMPHASIS		
S_2	TAPE MONITOR 1		OFF — ON		OFF — ON		75μs — 25μs		
	OFF — ON								

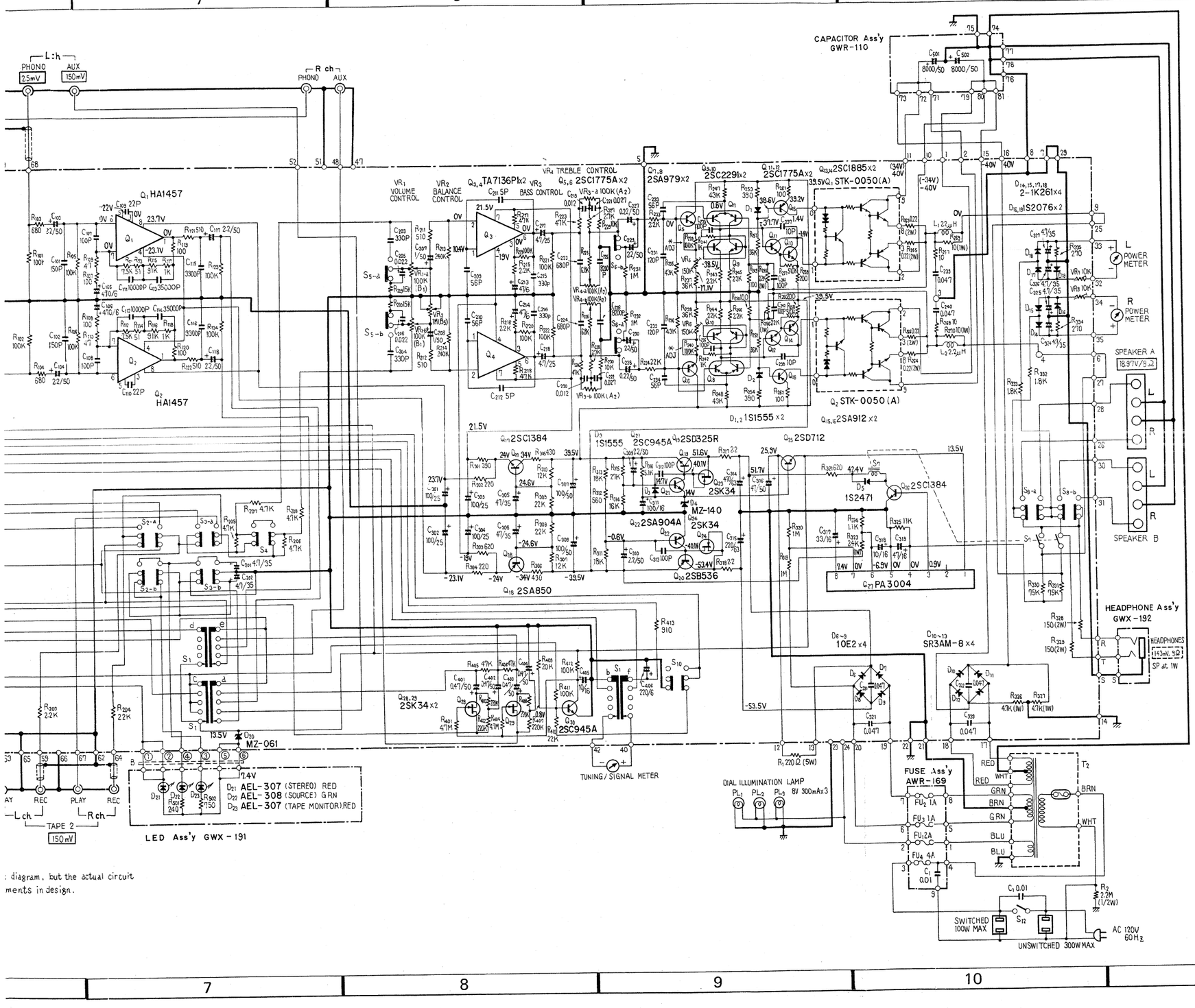
RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K; kΩ M; MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P; pF

V : SIGNAL VOLTAGE AT 45W+45W 8Ω OUTPUT (1kHz)
V : DC VOLTAGE AT NO INPUT SIGNAL
mA : DC CURRENT AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT 45W OUTPUT

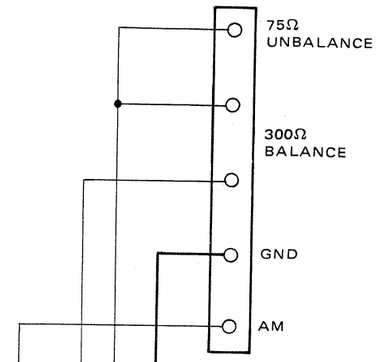
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

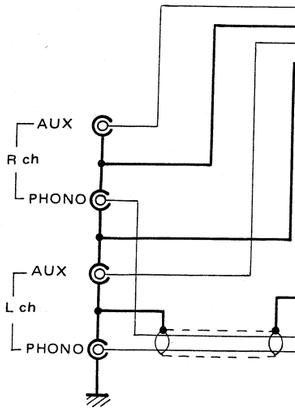
NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



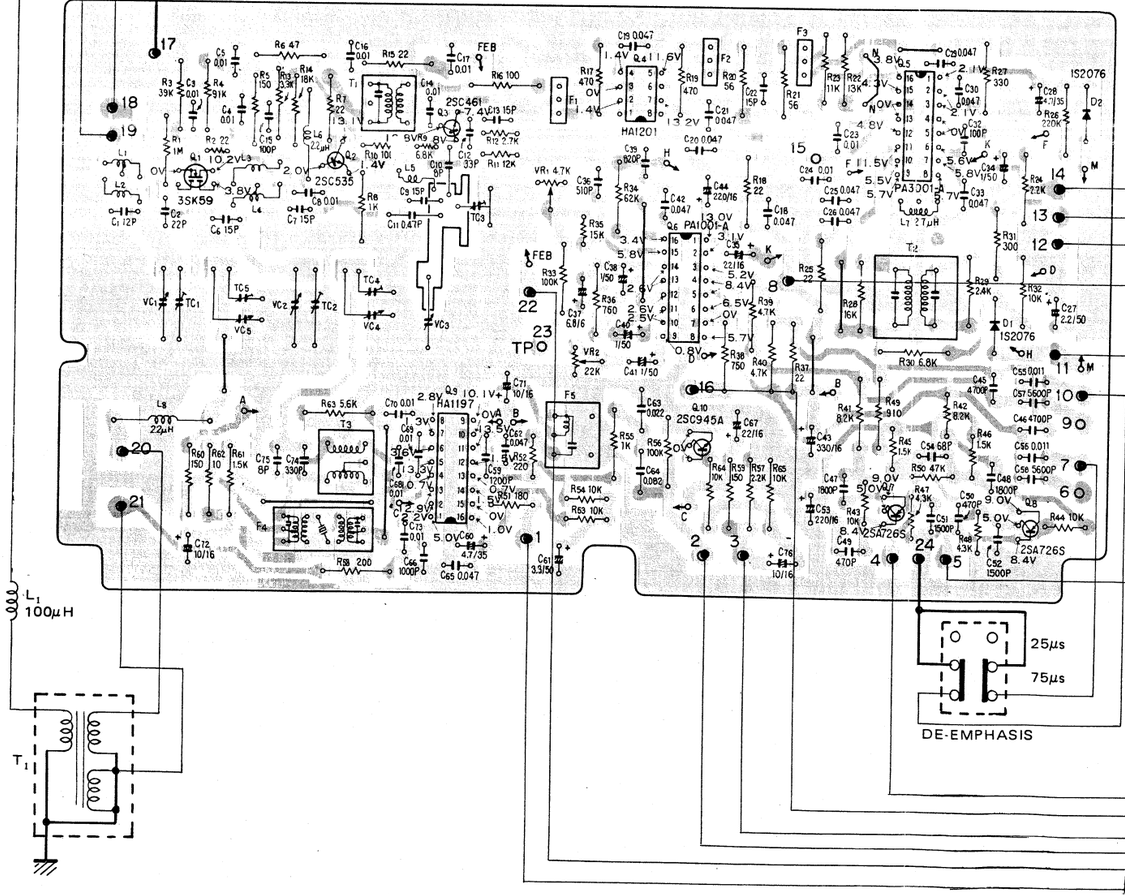
: diagram, but the actual circuit
ments in design.

P.C. BOARD CONNECTION DIAGRAM

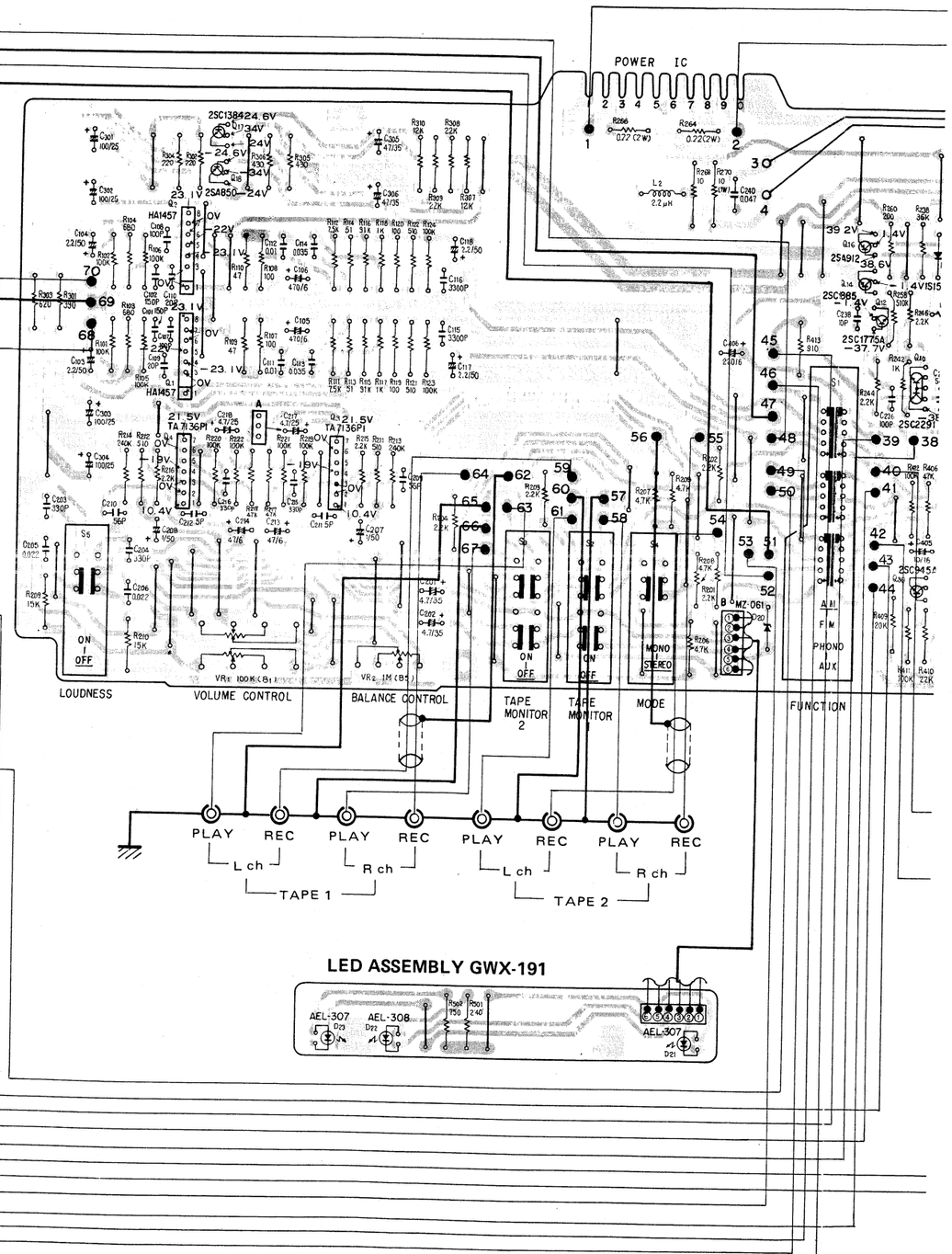




TUNER ASSEMBLY AWE-099

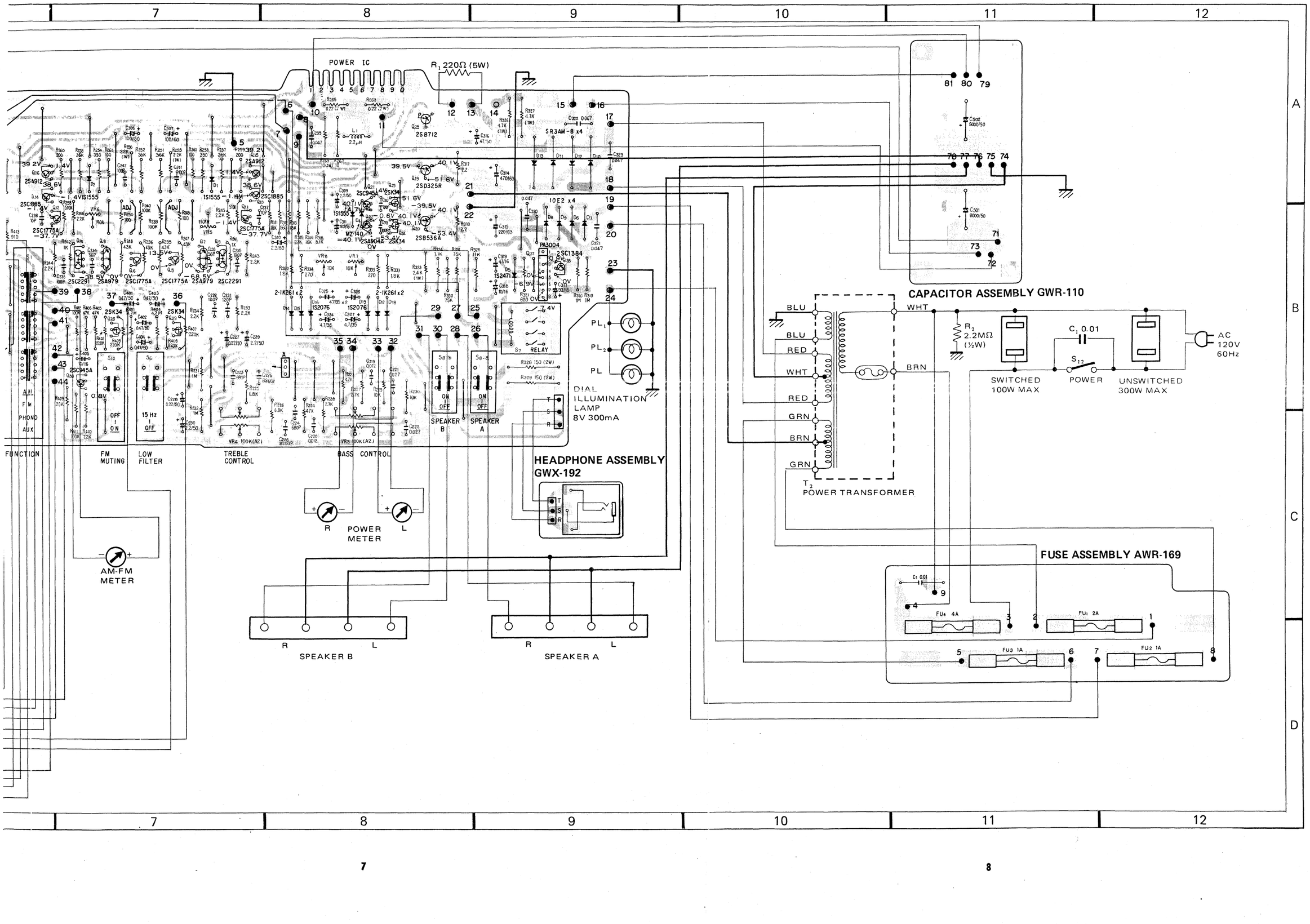


DE-EMPHASIS

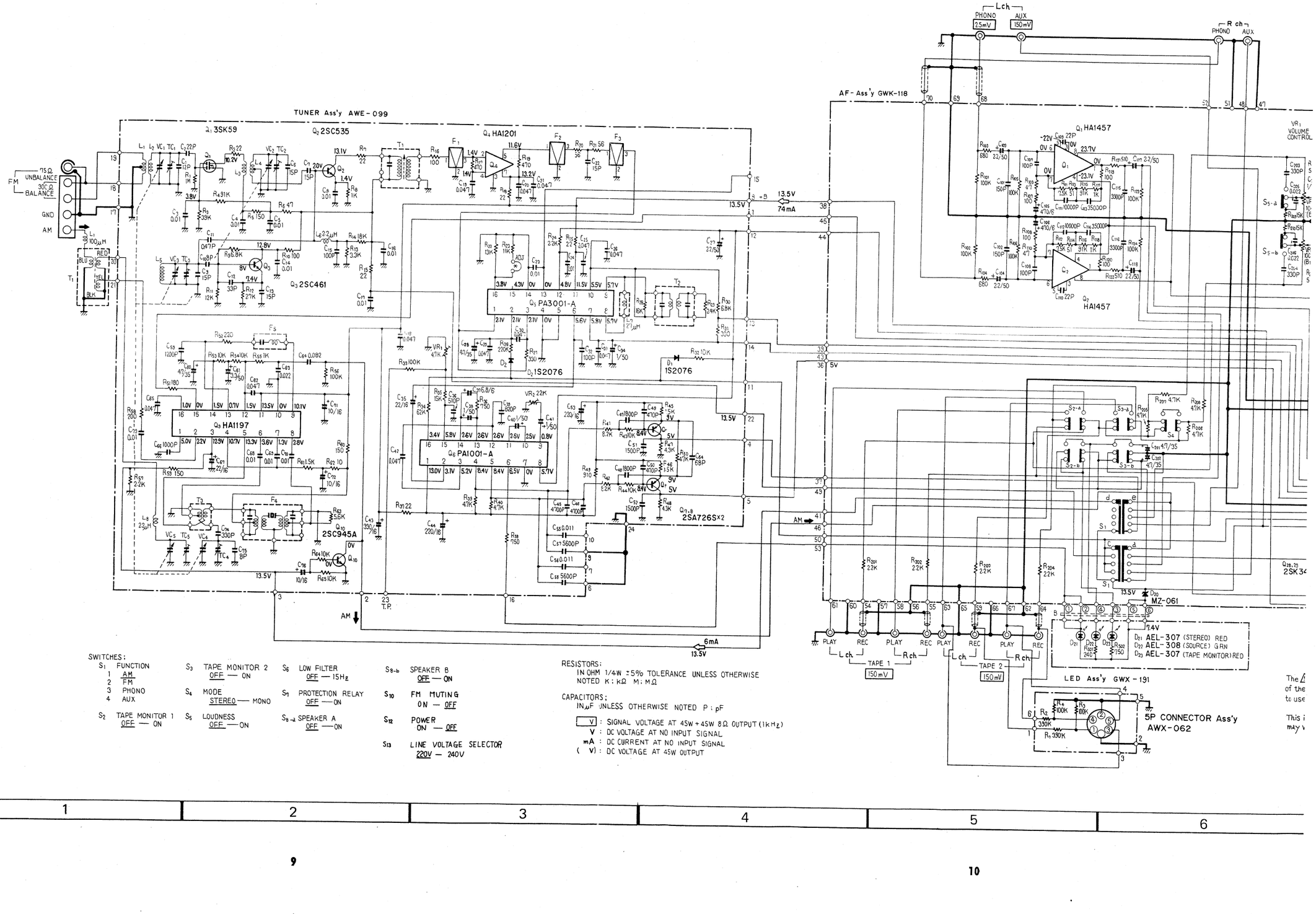


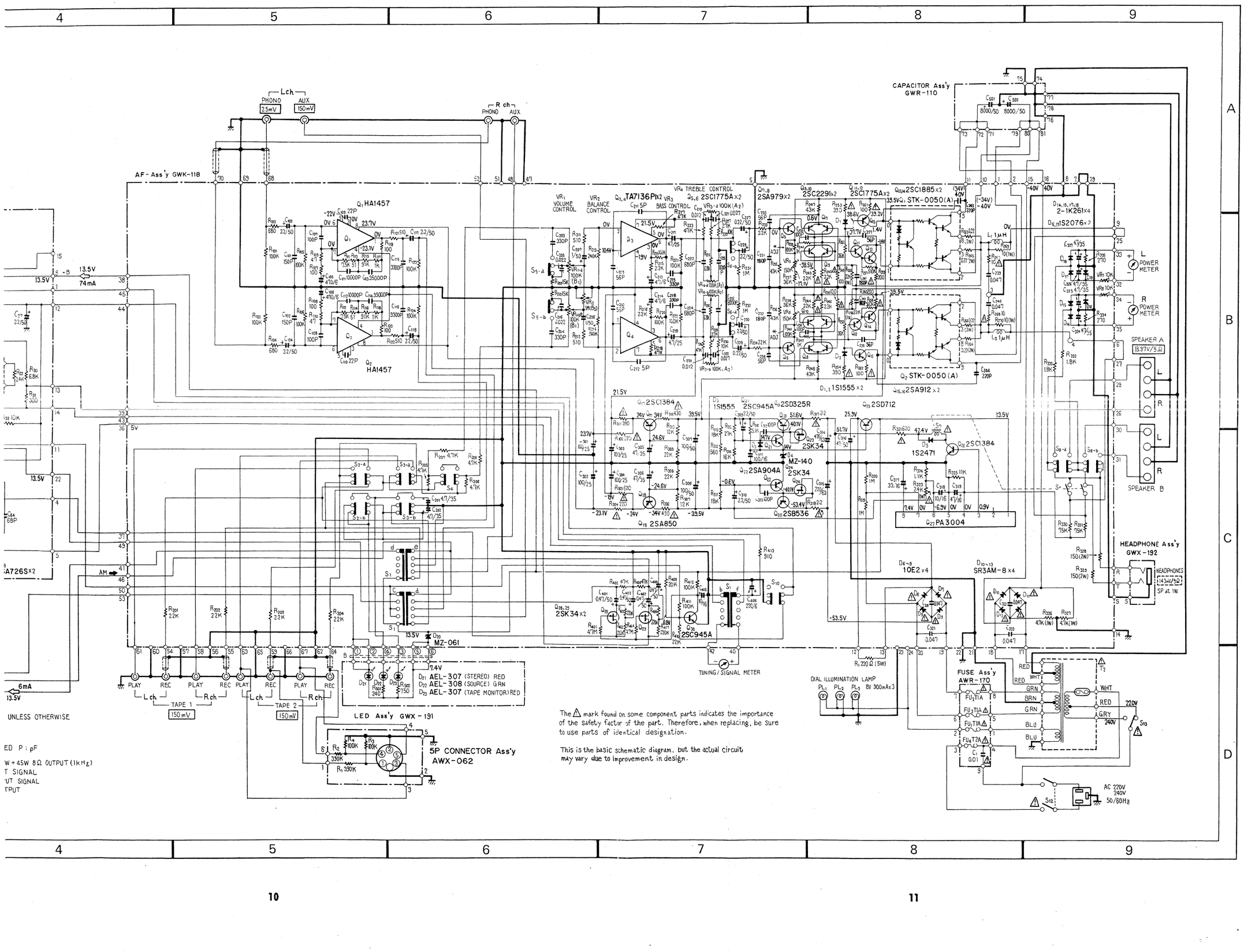
LED ASSEMBLY GWX-191

SX-790

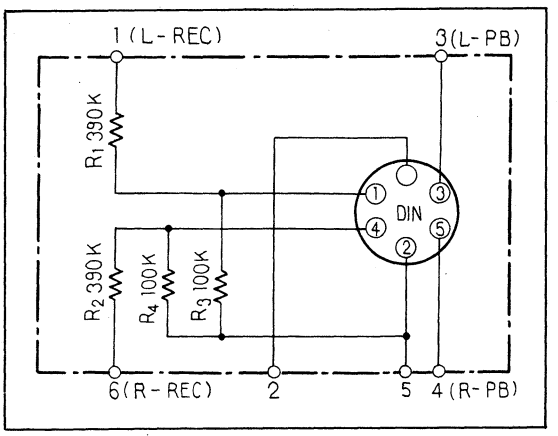

7
8
9
10
11
12
A
B
C
D
POWER IC
R1 220Ω (5W)
HEADPHONE ASSEMBLY GWX-192
CAPACITOR ASSEMBLY GWR-110
FUSE ASSEMBLY AWR-169
DIAL ILLUMINATION LAMP 8V 300mA
SPEAKER B
SPEAKER A
POWER METER
AM-FM METER
T2 POWER TRANSFORMER
SWITCHED 100W MAX
UNSWITCHED 300W MAX
AC 120V 60Hz
FUNCTION
FM MUTING
LOW FILTER
TREBLE CONTROL
BASS CONTROL
RELAY
BLU
WHT
RED
GRN
BRN

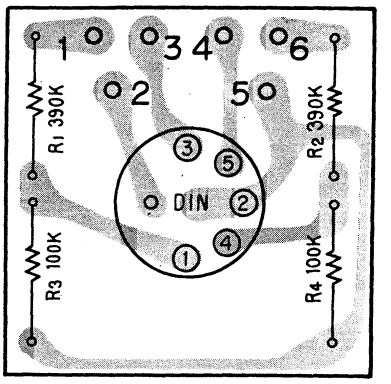
SCHEMATIC DIAGRAM




Lch
PHONO 2.5mV
AUX 150mV
Rch
PHONO
AUX
AF-Ass'y GWK-118
CAPACITOR Ass'y GWR-110
Q1 HA1457
Q2 HA1457
VR1 VOLUME CONTROL
VR2 BALANCE CONTROL
VR3 BASS CONTROL
VR4 TREBLE CONTROL
Q3,4 TA7136P x2
Q5,6 2SC1775A x2
Q7,8 2SA979 x2
Q9,10 2SC2291 x2
Q11,12 2SC1775A x2
Q13,14 2SC1885 x2
Q1, Q2 STK-0050(A)
D1,2 1S1555 x2
Q15,16 2SA912 x2
Q17 2SC1384
Q18 2SA850
Q19 2SC945A
Q20 2SB536
Q21 2SC945A
Q22 2SA904A
Q23 2SD325R
Q24 2SK34
Q25 2SD712
Q26 2SC1384
Q27 2SK34
Q28,29 2SK34 x2
D3 1S1555
D4 MZ-140
D5 1S2471
D20 MZ-061
D14,15,17,18 2-1K261 x4
D16,19 1S2076 x2
D6~9 10E2 x4
D10~13 SR3AM-8 x4
D21 AEL-307 (STEREO) RED
D22 AEL-308 (SOURCE) GRN
D23 AEL-307 (TAPE MONITOR) RED
LED Ass'y GWX-191
5P CONNECTOR Ass'y AWX-062
TUNING/SIGNAL METER
DIAL ILLUMINATION LAMP PL1 PL2 PL3 8V 300mA x3
FUSE Ass'y AWR-170
POWER METER
SPEAKER A 18.3V/5Ω
SPEAKER B
HEADPHONE Ass'y GWX-192
HEADPHONES 1.43mV/8Ω SP at 1W
TAPE 1 150mV
TAPE 2 150mV
PLAY REC
AC 220V 240V 50/60Hz
13.5V 74mA
6mA
UNLESS OTHERWISE
The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
This is the basic schematic diagram, but the actual circuit may vary due to improvement in design.

CONNECTOR ASSEMBLY (AWX-062)





FUSE ASSEMBLY (AWR-170)